

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID: M00222  
Date Received: 04/19/07  
Date Extracted: 04/25/07  
Date Analyzed: 04/26/07  
Matrix: Water  
Units: ug/L (ppb)

Client: Alaskan Copper Works  
Project: Metro Self Monitor, PO# M00222  
Lab ID: 704241-01  
Data File: 704241-01.021  
Instrument: ICPMS1  
Operator: HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	91	60	125
Bismuth	96	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	400
Nickel	238
Copper	115
Zinc	<10

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	Metro Self Monitor, PO# M00222
Date Extracted:	04/25/07	Lab ID:	I7-151 mb
Date Analyzed:	04/26/07	Data File:	I7-151 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	108	60	125
Indium	110	60	125
Bismuth	110	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: 05/03/07

Date Received: 04/19/07

Project: Metro Self Monitor, PO# M00222, F&amp;BI 704241

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS  
USING EPA METHOD 200.8**

Laboratory Code: 704300-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	<1	<1	nm	0-20
Nickel	ug/L (ppb)	2.76	2.71	2	0-20
Copper	ug/L (ppb)	1.17	1.31	11	0-20
Zinc	ug/L (ppb)	7.83	8.05	3	0-20

Laboratory Code: 704300-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	<1	97	50-150
Nickel	ug/L (ppb)	20	2.76	98	50-150
Copper	ug/L (ppb)	20	1.17	99	50-150
Zinc	ug/L (ppb)	50	7.83	95	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	98	70-130
Nickel	ug/L (ppb)	20	99	70-130
Copper	ug/L (ppb)	20	99	70-130
Zinc	ug/L (ppb)	50	93	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

May 3, 2007



INVOICE #07ACU0503-1

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M00222, F&BI 704241 - Results of testing  
requested by Gerry Thompson for material submitted on April 19, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Rush Charges (5 day) 50% of \$80.00	<u>40.00</u>
Amount Due .....	\$ 120.00

FEDERAL TAX ID #(b) (6)



## SAMPLE CHAIN OF CUSTODY

ME 04-19-07

AI4

704241  
 Send Report To Gerard Thompson  
 Company ALASKAN Copper works  
 Address 628 S. Harvard St  
 City, State, ZIP Seattle WA 98134  
 Phone # 206 571-6033 Fax # 206-382-4308

SAMPLERS (signature)

PROJECT NAME/NO.

Memo Self monitor

PO #

M00222

REMARKS

Please For Results

Page # \_\_\_\_\_ of \_\_\_\_\_

## TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH 4 days

Rush charges authorized by: \_\_\_\_\_

## SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS							
M00222	01	4/18/02	11:30	Air	1								✓ 206Cu, 207, 208					

Friedman & Bruya, Inc.  
 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>G. Thompson</u>	<u>ACW</u>	<u>4/18/02</u>	<u>12:55</u>
Received by: <u>Daw</u>	<u>DO VO</u>	<u>FBI</u>	<u>1</u>	<u>1:10 PM</u>
Relinquished by:				
Received by:				

Samples received at 23 °C

FRIEDMAN & BRUYA, INC.

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May 3, 2007

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

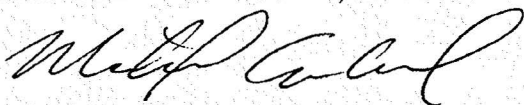
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 19, 2007 from the Metro Self Monitor, PO# M00222, F&BI 704241 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
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